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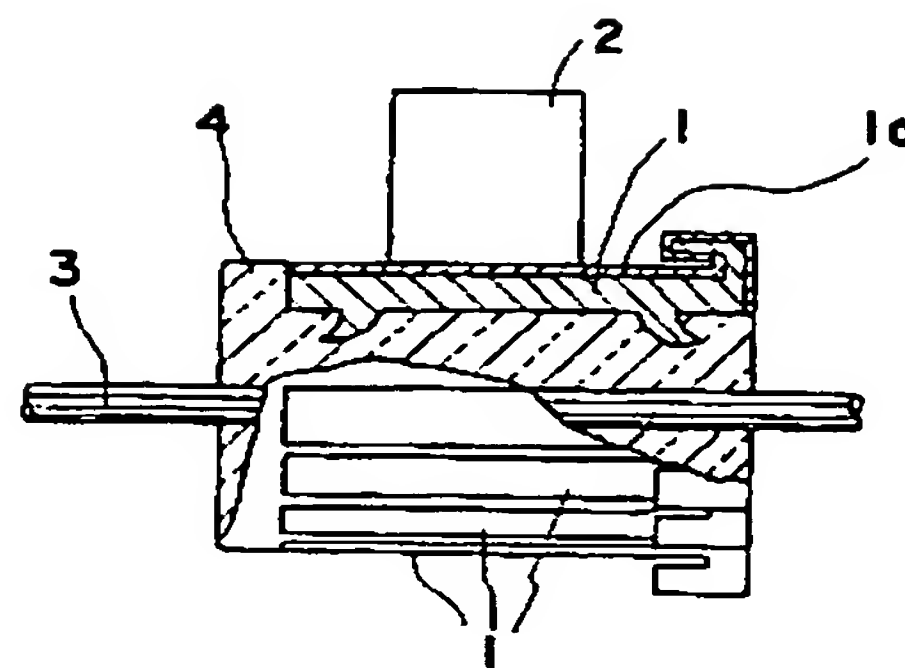
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APPLICANT : MITSUBISHI ELECTRIC CORP;

INVENTOR : KUWATA HIDEYUKI;

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TITLE : FUEL PUMP MOTOR



ABSTRACT : PURPOSE: To obtain a fuel pump motor having excellent durability by forming a special composite galvanization layer on the contact face of a commutator with a brush thereby reducing corrosion and abrasion of the commutator and the brush.

CONSTITUTION: A composite galvanization layer 1a composed of nickle, phosphorus and conductive micro hard particles, i.e., silicon carbide particles, is formed on the contact face of a commutator 1 with a brush 2. Nickle and phosphorus are contained in the galvanization layer 1a with weight ratio of 94:6-90:10. The thickness of the galvanization layer 1a is in the range of 1-200 μ m. Grain size of silicon carbide in the composite galvanization layer 1a is smaller than 5 μ m and the content thereof is in the range of 1.5-10wt.%. By such arrangement, the commutator can be protected against degradation due to corrosion or abrasion resulting in considerable improvement of durability.

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